
From: Don G. Horner
To: Hogan, Steven; Hamayasu, Toru
Sent: 10/13/2008 12:06:27 PM
Subject: FW: Memorandum to Don Horner
Attachments: HornerTransitMemo.pdf

Steve/Toru-pls note Carl Kim's comments. The mayor has called me/lmtc for update and I'll rtn his call and tell him at this point Carl does not have enough info to make an endorsement the project. And, I did not realize he was going out of town.

-----Original Message-----

From: Karl Kim [mailto:karlk@hawaii.edu]
Sent: Sunday, October 12, 2008 7:22 PM
To: Don G. Horner
Cc: Emi Morikawa
Subject: Memorandum to Don Horner

Don,

Here's my memo to you on the Transit Project. Let me know what you think. I'm back in town next Saturday afternoon. But I have to go to Tianjin on the 23rd. I tried calling on Saturday. Karl

----- Original Message -----

From: "Don G. Horner" <dhorner@fhh.com>
Date: Saturday, October 11, 2008 3:00 pm
Subject: Re: RE: utilities analysis...
To: karlk@hawaii.edu, Emi Morikawa <emorikawa@fhh.com>

> Pls call Dr Kim and setup phone mtg to discuss project.

>

> -----Original Message-----

> From: Karl Kim <karlk@hawaii.edu>
> To: Don G. Horner
> Sent: Wed Oct 08 17:25:59 2008
> Subject: Re: RE: utilities analysis...

>

> Attached is the unit cost analysis I've been working on.

> The guideway is about \$60m per mile or about \$317 per sq ft.

> The station costs seem high - on a sq foot basis.

> The soft cost % is low compared to national averages.

> I think I can live with most of these capital cost estimates.

> I've been checking with various project engineers and others on these

> costs and they seem more or less in line.

>

> I agree the utilities costs for transit seem high - but a bus is using

> about 87 gal/day or $87 \times 4.50 = \$391$ for much fewer passengers. I don't

> think that PB's value for the kilowatt hour charge of .11 is correct.

> Even if we use that value its more than double the 5.2 million per

> year for the utility costs.

>

> The attached spreadsheet shows what I've been doing with the unit

> capital costs.

>

> I'm getting nervous about not getting the financing plan numbers

> together.

>

> I have to teach tonight between 6-8:30 PM.

> You can call on my cel phone 286-4878 or office 956-6865 after 8:30 PM

>

> Karl
> ----- Original Message -----
> From: "Don G. Horner" <dhorner@fhhb.com>
> Date: Wednesday, October 8, 2008 1:41 pm
> Subject: RE: utilities analysis...
> To: Karl Kim <karlk@hawaii.edu>
>
> > Karl-I did not get anything from them as yet. But, the \$26mm
> is over
> > \$1,000 per day per vehicle. That sounds high relative to a
> bus, etc.
> >
> > -----Original Message-----
> > From: Karl Kim [mailto:karlk@hawaii.edu]
> > Sent: Tuesday, October 07, 2008 4:14 PM
> > To: Don G. Horner
> > Subject: utilities analysis...
> >
> >
> > Don,
> >
> > Attached is my rough estimate of how far off they are with regard to
> > the utilities estimate. My guess is that the utility costs would be
> > more than
> > \$26 million annually. That's much higher than the 8.6% (based on
> > Sacramento). Maybe they'll come back with something else...
> >
> > Did you get anything from them like they promised?
> >
> > Karl
> >
> > +-----+
> > Karl Kim, Ph.D.
> > Professor
> > Department of Urban and Regional Planning University of Hawaii at
> > Manoa
> > 2424 Maile Way, #107
> > Honolulu, Hawaii, 96822 U.S.A.
> > Tel: 808-956-7381
> > FAX: 808-956-6870
> > E-mail: karlk@hawaii.edu
> > Website: http://www.durp.hawaii.edu
> >
> > ----- Forwarded message -----
> > Date: Tue, 7 Oct 2008 15:15:33 -1000 (HST)
> > From: Karl Kim <karlk@hawaii.edu>
> > To: "Spurgeon, Lawrence" <Spurgeon@pbworld.com>
> > Cc: "Hogan, Steven" <Hogan@pbworld.com>, "Dunn, James"
> > <DunnJ@pbworld.com>
> > Subject: RE: additional information
> >
> >
> > O.K. then if we use that value - .25 per kWH then we get something
> > like
> > \$26.2 million per year in energy costs? This much higher than 8.6%
> > based on the Sacramento model for the estimate of O/M costs. So the
> > AA
> > 2006 O/M costs were \$61 million - the Sacramento model says
> > utilities> are 8.6% =
> > \$5.2 million for utilities. So my estimate is way over this value.
> > Unless I'm missing something here.
> >
> > Karl
> > +-----+
> > Karl Kim, Ph.D.

> > Professor
> > Department of Urban and Regional Planning University of Hawaii at
> > Manoa
> > 2424 Maile Way, #107
> > Honolulu, Hawaii, 96822 U.S.A.
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> > FAX: 808-956-6870
> > E-mail: karlk@hawaii.edu
> > Website: http://www.durp.hawaii.edu
> >
> > On Tue, 7 Oct 2008, Spurgeon, Lawrence wrote:
> >
> > > You are probably right - I was going straight from what I
> > found on
> > > their website.
> > >
> > > -----Original Message-----
> > > From: Karl Kim [mailto:karlk@hawaii.edu]
> > > Sent: Tuesday, October 07, 2008 2:54 PM
> > > To: Spurgeon, Lawrence
> > > Cc: Hogan, Steven; Dunn, James
> > > Subject: RE: additional information
> > >
> > >
> > > That's really helpful. But after talking to HECO, I
> > understand that
> > > there's a fuel surcharge that brings the price up to
> something
> > more
> > > like 0.20 - .25 per kWh - that's why I used the .25 - since
> > we're also
> >
> > > looking at 2019. I think HECO refers to this as the
> > Energy Cost
> > > Adjustment clause. Again, maybe I'm doing something
> > wrong here...
> > >
> > > Karl
> > > +-----+
> > > Karl Kim, Ph.D.
> > > Professor
> > > Department of Urban and Regional Planning University of
> Hawaii
> > at
> > > Manoa
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> > > Tel: 808-956-7381
> > > FAX: 808-956-6870
> > > E-mail: karlk@hawaii.edu
> > > Website: http://www.durp.hawaii.edu
> > >
> > > On Tue, 7 Oct 2008, Spurgeon, Lawrence wrote:
> > >
> > > > Annualization factor is less than 365 days - We are using
> > 308. This
> > >
> > > > accounts for lighter weekend service.
> > > >
> > > > I get 105 GWH/year. Not sure the "right" price of
> > electricity to
> > > > use,
> > > >
> > > > HECO's large demand rate on their website is 11.0668
> > cents/kWh.
> > > > This sticks my estimate at \$13M/year, without re-checking
> > any of my
> > > > calculations.

> > > >
> > > > -----Original Message-----
> > > > From: Karl Kim [mailto:karlk@hawaii.edu]
> > > > Sent: Tuesday, October 07, 2008 10:52 AM
> > > > To: Spurgeon, Lawrence
> > > > Subject: RE: additional information
> > > >
> > > >
> > > > So as an estimate of the annual energy costs:
> > > >
> > > > 340 MWH x 365 = 124 GWH/ year
> > > > at .25c per KWH = \$31M/ year?
> > > >
> > > > Am I doing something wrong here?
> > > >
> > > > Thanks, Karl
> > > > +-----+
> > > > Karl Kim, Ph.D.
> > > > Professor
> > > > Department of Urban and Regional Planning University of
> > Hawaii at
> > > > Manoa
> > > > 2424 Maile Way, #107
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> > > > E-mail: karlk@hawaii.edu
> > > > Website: http://www.durp.hawaii.edu
> > > >
> > > > On Mon, 6 Oct 2008, Spurgeon, Lawrence wrote:
> > > >
> > > > > Dr. Kim,
> > > > > At the most simple level, 19 mile route with 976 daily
> > > > > rail-vehicle trips, and 63,000 BTU/rail-vehicle mile
> > (ORNL
> > > > > Transportation Energy Data Book, I used 26th Edition
> > average
> > > > > numbers). Multiply that out and account for
> rounding
> > we have
> > 1,160 Million BTUs/day.
> > > > >
> > > > > These are our planning level calculations that are being
> > taken
> > > > > into our EIS work. I understand that the systems
> > design folks
> > > > > have a more detailed calculation that includes further
> > vehicle,
> > > > > system operation, and passenger load detail that is
> within
> > 10% of
> > > > > the
> > > planning value.
> > > > >
> > > > > Let me know if you need more information
> > > > >
> > > > > -----Original Message-----
> > > > > From: Scheibe, Mark
> > > > > Sent: Monday, October 06, 2008 3:04 PM
> > > > > To: Spurgeon, Lawrence
> > > > > Cc: Dunn, James
> > > > > Subject: Fw: additional information
> > > > >
> > > > > Can you or Jim deal directly with him. He's still
> > looking at
> > > > > AA-level
> > > > >

> > > > info.
> > > >
> > > > Thanks
> > > >
> > > >
> > > > Mark H. Scheibe
> > > > Parsons Brinckerhoff
> > > > Sent from my BlackBerry Wireless Handheld
> > > >
> > > > ----- Original Message -----
> > > > From: Karl Kim <karlk@hawaii.edu>
> > > > To: Scheibe, Mark
> > > > Cc: thamayasu@honolulu.gov <thamayasu@honolulu.gov>
> > > > Sent: Mon Oct 06 20:43:27 2008
> > > > Subject: RE: additional information
> > > >
> > > >
> > > > Can you show me how this was calculated?
> > > >
> > > > +-----+
> > > > Karl Kim, Ph.D.
> > > > Professor
> > > > Department of Urban and Regional Planning University of
> > Hawaii at
> > > > Manoa
> > > > 2424 Maile Way, #107
> > > > Honolulu, Hawaii, 96822 U.S.A.
> > > > Tel: 808-956-7381
> > > > FAX: 808-956-6870
> > > > E-mail: karlk@hawaii.edu
> > > > Website: http://www.durp.hawaii.edu
> > > >
> > > > On Mon, 6 Oct 2008, Scheibe, Mark wrote:
> > > >
> > > > >
> > > > > Karl,
> > > > >
> > > > > Here is information on energy consumption. Will
> > get back to you
> >
> > > > > on other questions.
> > > > >
> > > > >
> > > > > 340 MWH/day or 1,160 Million BTUs/day.
> > > > >
> > > > > This is calculated from 63,000 BTU/rail-vehicle mile
> > > > >
> > > > >
> > > > > Mark
> > > > >
> > > > >
> > > > > -----Original Message-----
> > > > > From: Hamayasu, Toru [mailto:thamayasu@honolulu.gov]
> > > > > Sent: Monday, October 06, 2008 9:07 AM
> > > > > To: Scheibe, Mark
> > > > > Subject: Fw: additional information
> > > > >
> > > > >
> > > > >
> > > > > -----Original Message-----
> > > > > From: Karl Kim <karlk@hawaii.edu>
> > > > > To: Hamayasu, Toru <thamayasu@honolulu.gov>
> > > > > Sent: Mon Oct 06 07:51:08 2008
> > > > > Subject: additional information
> > > > >
> > > > >
> > > > > Toru,

> > > > >
 > > > > > It would be really helpful if I could get more
 > detailed
 > > > > > information on
 > > > >
 > > > > > the O/M costs for Sacramento. Is it possible to get a
 > > copy of
 > > > > > the O/M spreadsheet (both that which was used for FY03-
 > > 04 and
 > > > > > the 2007
 > > > > data)?
 > > > > > I'm struggling over how to justify the reasonableness
 > of
 > > our O/M
 > >
 > > > > > estimates.
 > > > > >
 > > > > > I also need some help on the utility costs. In
 > the
 > > technology
 > > > > > selection papers you sent me, there are estimates of
 > > energy
 > > > > > requirements - not believable - submitted by Panos -
 > one
 > > > > > substation per mile - 3 MW - requiring 30 substation
 > for
 > > 90 MW!
 > > > > > Requiring 7 - 20
 > > > > >
 > > > > > millions gallons of fuel per year. Can you get
 > for
 > > me more
 > > > > > realistic
 > > > > > energy requirements.
 > > > > > How many kilowatts per hour? Per vehicle? To
 > > operate the
 > > system?
 > > > > >
 > > > > > Can you get for me the fixed guideway costs for
 > > Soundtransit's
 > > > > > Seattle
 > > > > >
 > > > > > to SeaTac Airport - arranged in similar way to the
 > > spreadsheet
 > > > > > you
 > > >
 > > > > > did
 > > > > >
 > > > > > for Horner?
 > > > > >
 > > > > > This would help me to validate the operating and
 > capital
 > > costs.> > >
 > > > > > Thanks, Karl
 > > > > >
 > > > > > +-----+
 > > > > > Karl Kim, Ph.D.
 > > > > > Professor
 > > > > > Department of Urban and Regional Planning University
 > of
 > > Hawaii
 > > > > > at Manoa
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 > > > > > Website: http://www.durp.hawaii.edu

> > > > >
> > > > >
> > > > >
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